

OYA0910-20-4-18-P-1-B

[illegible]

- |   |                       |
|---|-----------------------|
| T | transmitter           |
| R | receiver              |
| 1 | LED yellow            |
| 2 | LED red               |
| 3 | 7-segment LED display |
| 4 | LED green             |
| 5 | LED yellow            |
| 6 | LED red               |
| 7 | 7-segment LCD display |
| 8 | LED green             |





## Safety light curtain

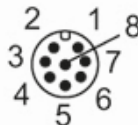
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| Product characteristics                      |             |                                                |
|----------------------------------------------|-------------|------------------------------------------------|
| Type of light                                |             | Infrared light                                 |
| Dimensions                                   | [mm]        | 1011 x 35 x 45                                 |
| Application                                  |             |                                                |
| Protective function                          |             | Access prevention hand protection              |
| Electrical data                              |             |                                                |
| Operating voltage tolerance                  | [%]         | 20                                             |
| Operating voltage                            | [V]         | 24 DC                                          |
| Protection class                             |             | III                                            |
| Reverse polarity protection                  |             | yes                                            |
| Power-on delay time                          | [s]         | < 18                                           |
| Type of light                                |             | Infrared light                                 |
| Wave length                                  | [nm]        | 950                                            |
| Receiver                                     |             |                                                |
| Current consumption                          | [mA]        | 125                                            |
| Transmitter                                  |             |                                                |
| Current consumption                          | [mA]        | 83                                             |
| Outputs                                      |             |                                                |
| Electrical design                            |             | PNP                                            |
| Number of OSSD outputs                       |             | 2                                              |
| Max. current load per OSSD output            | [mA]        | 500; (24 V)                                    |
| Short-circuit protection                     |             | yes                                            |
| Monitoring range                             |             |                                                |
| Protected area height                        | [mm]        | 910                                            |
| Resolution (detection capacity d)            | [mm]        | 20                                             |
| Protection area width (low light intensity)  | [m]         | 0...6                                          |
| Protection area width (high light intensity) | [m]         | 3...18                                         |
| Floating blanking                            |             | yes                                            |
| Reaction times                               |             |                                                |
| Response time                                | [ms]        | 15.5                                           |
| Operating conditions                         |             |                                                |
| Applications                                 |             | Class C to EN 60654-1 weatherproof application |
| Ambient temperature                          | [°C]        | 0...55                                         |
| Max. relative air humidity                   | [%]         | 95                                             |
| Protection                                   |             | IP 65                                          |
| Tests / approvals                            |             |                                                |
| EMC                                          | IEC 61496-1 |                                                |
| Shock resistance                             | IEC 61496-1 |                                                |
| Vibration resistance                         | IEC 61496-1 |                                                |



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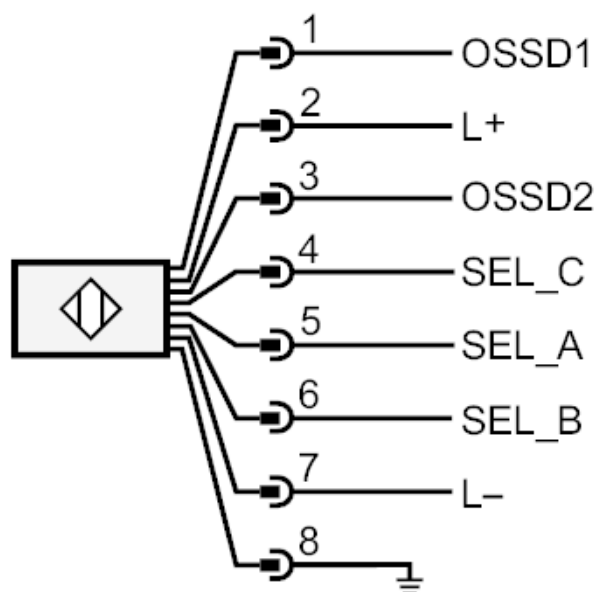
| Safety classification                                                                          |                                   |                       |
|------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------|
| ESPE type (IEC 61496-1)                                                                        | 4                                 |                       |
| ISO 13849-1                                                                                    | Category 4, PL e                  |                       |
| IEC 61508                                                                                      | SIL 3                             |                       |
| IEC 62061                                                                                      | SIL cl 3                          |                       |
| Mission time TM                                                                                | [h]                               | 175200                |
| Safety-related reliability PFHD                                                                | [1/h]                             | 1.8 E -08             |
| Mechanical data                                                                                |                                   |                       |
| Weight                                                                                         | [g]                               | 5030                  |
| Dimensions                                                                                     | [mm]                              | 1011 x 35 x 45        |
| Material                                                                                       | housing: aluminum; front lens: PC |                       |
| Length L                                                                                       | [mm]                              | 1011                  |
| Displays / operating elements                                                                  |                                   |                       |
| Display                                                                                        | transmitter                       | 3 x LED               |
|                                                                                                | transmitter                       | 7-segment LCD display |
|                                                                                                | receiver                          | 3 x LED               |
|                                                                                                | receiver                          | 7-segment LCD display |
| Accessories                                                                                    |                                   |                       |
| Items supplied                                                                                 | Assembly angle: 4                 |                       |
|                                                                                                | Slot nuts: 4                      |                       |
|                                                                                                | screws                            |                       |
| Remarks                                                                                        |                                   |                       |
| Pack quantity                                                                                  | 1 pcs.                            |                       |
| Electrical connection - receiver                                                               |                                   |                       |
| Connector: 1 x M12; Maximum cable length: 100 m; for wire cross-section 0.34 mm²               |                                   |                       |
| <div></div> |                                   |                       |



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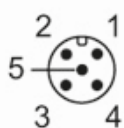
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### Connection



### Electrical connection - transmitter

Connector: 1 x M12



# OY817S



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### Connection

